Calculating Percent Changes

Percent Changes are calculated based on the percent difference between two time periods and the same neighborhood or area.

The formula for Percent Change is:

((Current Time Period Stat) minus (Early Time Period Stat)) divided by (Early Time Period Stat) times 100. Subtract the two figures first then divide by the (Early Time Period Stat) then multiply the result by 100.

An example to illustrate Percent Increase:

The Central Neighborhood had 79 Part I Offenses reported in August of 2001 = (Current Time Period Stat).

The Central Neighborhood had 55 Part I Offenses reported in August of 2000 = (Early Time Period Stat).

((Current Time Period Stat = 79) minus (Early Time Period Stat =55)) divided by (Early Time Period Stat =55) times 100 = 43.6% increase. Subtract the two figures first then divide by the (Early Time Period Stat) then multiply the result by 100.

$$(79 - 55) / 55 * 100 = 43.6\%$$

An example to illustrate Percent Decrease:

The Linden Hills Neighborhood had 15 Part I Offenses reported in August of 2001 = (Current Time Period Stat).

The Linden Hills Neighborhood had 28 Part I Offenses reported in August of 2000 = (Early Time Period Stat).

((Current Time Period Stat = 15) minus (Early Time Period Stat =28)) divided by (Early Time Period Stat =28) times 100 = -46.4% increase. Since the (Early Time Period Stat) was larger, the result becomes negative and shows directionality (decrease).

$$(15 - 28) / 28 * 100 = -46.4\%$$